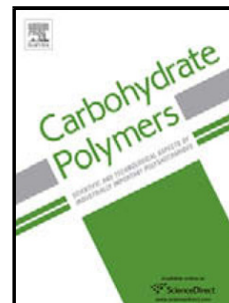


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**Comparison of structural, thermal and proton conductivity properties
of micro- and nanocelluloses**

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Highlights

- The properties of selected nano- and microcelluloses were studied and compared.
- The thermal properties of cellulose films are similar from 23 °C to about 200 °C.
- TEMPO-oxidized CNF film showed the highest proton conductivity.

Abstract

Our search for a cellulose-based proton conducting material is continued. This paper presents selected physicochemical properties of cellulose nanocrystals (CNCs) and cellulose nanofibrils

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